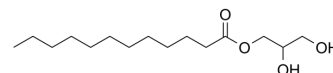


## Monolaurin

Cat. No.:	HY-121620		
CAS No.:	142-18-7		
Molecular Formula:	C <sub>15</sub> H <sub>30</sub> O <sub>4</sub>		
Molecular Weight:	274.4		
Target:	Bacterial; SARS-CoV		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 12.5 mg/mL (45.55 mM); ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.6443 mL	18.2216 mL	36.4431 mL
	5 mM		0.7289 mL	3.6443 mL	7.2886 mL
	10 mM		0.3644 mL	1.8222 mL	3.6443 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 1.25 mg/mL (4.56 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 1.25 mg/mL (4.56 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (4.56 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Monolaurin (1-Monolaurin) possesses anti-viral and anti-bacterial activity<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

- Patent. US20230149309A1.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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- [1]. Harry G Preuss, et al. Minimum inhibitory concentrations of herbal essential oils and monolaurin for gram-positive and gram-negative bacteria. Mol Cell Biochem. 2005 Apr;272(1-2):29-34.
- [2]. Edy Subroto, et al. Bioactive monolaurin as an antimicrobial and its potential to improve the immune system and against COVID-19: a review. Food Research 4(6):2355-2365.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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